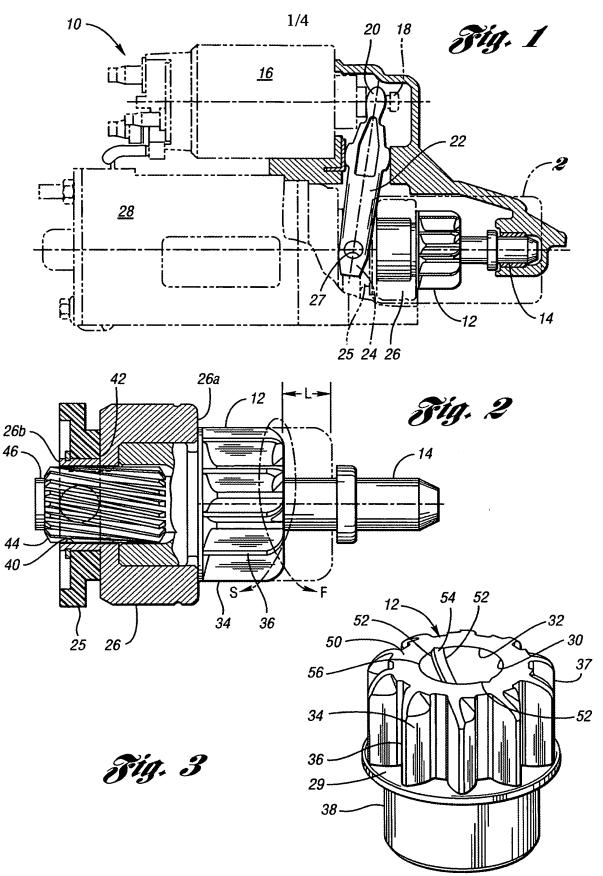
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Patent Application for BEARINGLESS PINION WITH CLEANING EDGES

Inventor(s): Monroe et al.

Application No.: 10/004,758; Attorney Docket No.: 10541-636

Replacement Sheet Mailed July 22, 2004

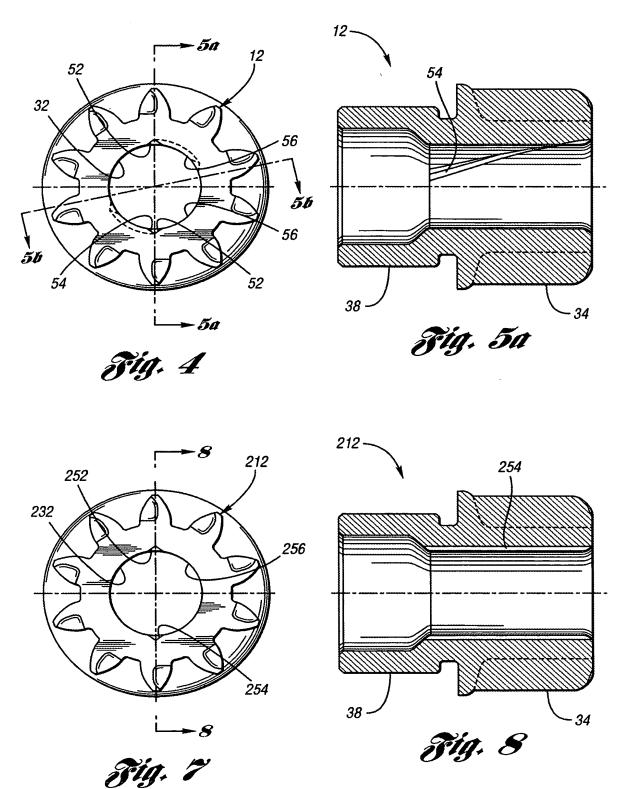




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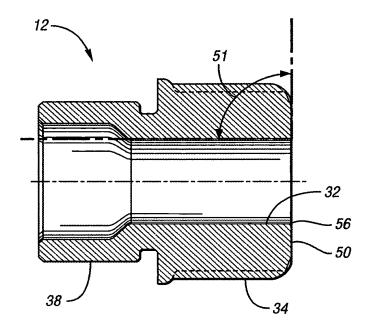
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110 --112 PROVIDING A PRIMARY EDGE FOR MOVING PARTICLES - 114 MOVING THE PINION IN A FIRST DIRECTION ALONG THE OUTPUT SHAFT - 116 CONTACTING THE PARTICLES ON THE OUTPUT SHAFT AS THE PINION MOVES IN THE FIRST DIRECTION THEREALONG - 118 RECEIVING THE PARTICLES IN THE GROOVE AS THE PINION MOVES ALONG THE OUTPUT SHAFT IN THE FIRST DIRECTION 120 ROTATIONALLY AND LINEARLY MOVING THE PARTICLES IN THE FIRST DIRECTION IN THE GROOVE AS THE PINION MOVES ALONG THE DRIVE OUTPUT SHAFT - 122 MOVING THE PINION IN A SECOND DIRECTION OPPOSITE THE FIRST DIRECTION ALONG THE OUTPUT SHAFT - 124 RELEASING CONTACT OF THE PARTICLES 126 CONTACTING THE PARTICLES UPON SUBSEQUENT ENGINE START-UP - 128 FORCING THE PARTICLES ALONG THE SHAFT TO THE END OF LENGTH L AS THE PINION MOVES IN THE FIRST DIRECTION

Fig. 6